#### CIA-RDP86-00513R001755910007-6 "APPROVED FOR RELEASE: 07/16/2001

SHAKHUNYANTS, Georgiy Mikhaylovich, doktor tekhn. nauk; AMELIN, S.V., prof., retsenzent; KONSTANTINOV, V.N., dots., retsenzent; SMIRNOV, M.P., retsenzent; YAKOVLEV, V.F., retsenzent; BOCHENKOV, M.S., kand.tekhm. nauk, retsenzent; BROMBERG, Ye.M., retsenzent; YERSHKOV, O.P., retsenzent; ZVEREV, B.N., retsenzent; ZOLOTARSKIY, A.F., retsenzent; IVASHCHENKO, G.I., retsenzent; LINÉV, S.A., retsenzent; MARKAR'YAN, M.A., retsenzent; POPOV, V.V., retsenzent; POPOV, S.N., retsenzent; SEPTERENNIKOV, V.V. retsenzent; SHAFRAMOVSKIY, A.K., retsenzent; MOVITSKIY, G.I., inzh., retsenzent; VIKTÓROV, I.I., kand.tekhn.mauk, retsenzent; VYSOTSKIY, A.F., kand.tekhn.nauk, retsenzent; SAATCHYAN, G.G., kand.tekhn.nauk, retsenzent; YAKOVIEVA, Ye.A., kand.tekhn.nauk, retsenzent; TITOV, V.P., kand.tekhn.nauk, retsenzent; GRUSHEVOY, N.G., inzh., red.; BROMBERG, Ye.M., kand.tekhn.nauk, red.; KHITROV, P.A., tekhn. red.

[Railroad tracks] Zheleznodorozhnyi put'. Moskva, Vses.izdatel'skopoligr.ob"edinenie M-va putei soobshcheniia, 1961. 615 p. (MIRA 14:12)

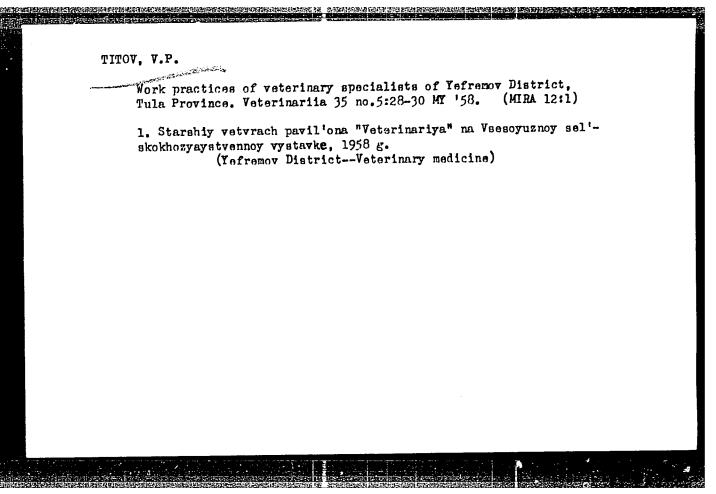
1. Kafedra "Zheleznodorozhnyy put" Leningradskogo instituta inzhenerov zheleznodorozhnogo transporta (for Amelin, Konstantinov, Smirnov, Yakovlev). 2. Vsesoyuznyy nauchno-issle ovatel skiy institut zheleznodorozhnogo transporta (for Bochenkov, Bromberg, Yershkov, Zverev, Zolotarskiy, Ivashchenko, Linev, Markar'yan, Popov, Y.V., Popov, S.N., Serebrennikov, Shafranovskiy, Novitskiy). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut transportnogo stroitel'stva(for Viktorov, Vysotskiy, Saatchyan, Yakovleva, Titov) (Railroad engineering)

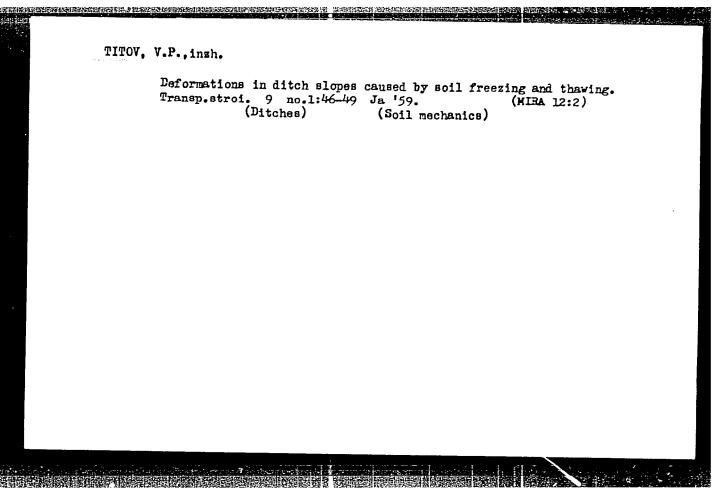
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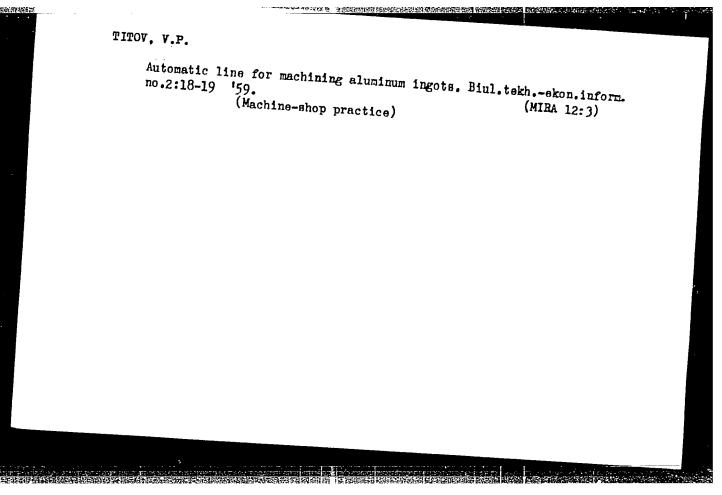
APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755910007-6"

railroad cuttings in connection with the seasonal freezing and thawing of spil." Mos, 1959. 21 pp with diagrams (MPS USSR. Mos Order of Lenin and Order of Labor Red Banner Inst of Engineers of Railroad Transport im I. V. Stalin), 150 copies (KL, 47-59, 115)

-33-

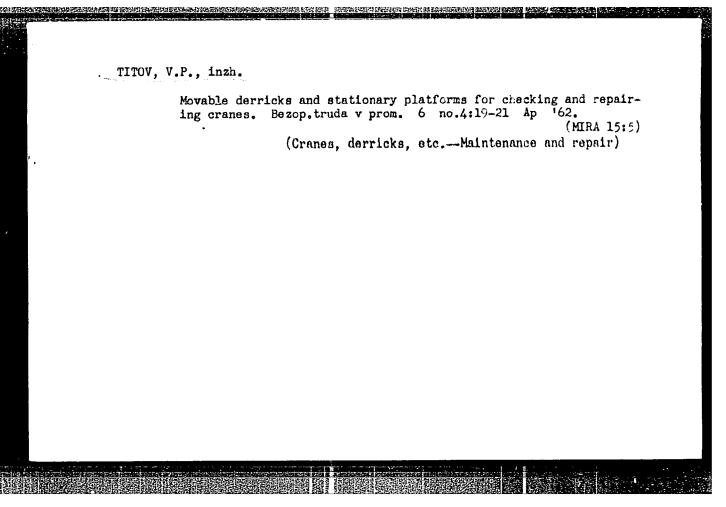


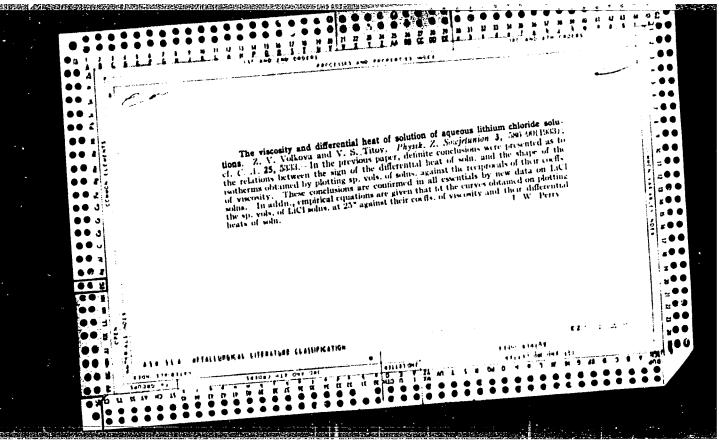


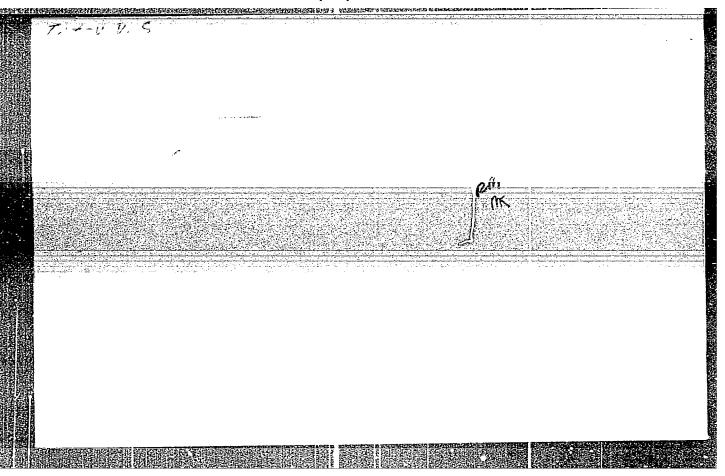


SATAROV,V.A., inshener; TITOV,V.P.; FILIPPOV,M.N., inshener

Electric power transmission Kuybyshev-Moscow. Hauka i zhizn'
22 no.8:7-9 Ag'55. (MIRA 8:10)
(Kuybyshev Hydroelectric Power Station) (Electric power
distribution)







3(0) PHASE I BOOK EXPLOITATION SOV/2205

Vsesoyuznyy nauchno-issledovatel'skiy institut fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy

Izmereniye vremeni; sbornik (Measurement of Time; Collection of Articles)
Moscow, Standartgiz, 1958. 115 p. (Series: Its: Trudy, /vyp./ 1)
Errata slip inserted. 2,000 copies printed.

Additional Sponsoring Agency: USSR. Komitet standartov, mer i izmeritel'nykh priborov.

Resp. Ed. of this vol: A.I. Konstantinov; Editorial Board: G.D. Burdun,
A.L. Dukler, V.I. Yermakov (Deputy Chairman), M.K. Zhokhovskiy,
L.M. Zaks, A.I. Konstantinov, V.F. Lubentsov (Chairman), M.P.
Orlova, L.M. Pyatigorskiy, I.G. Rusakov, N.A. Sorokin (Resp. Secretary),
V.N. Titov; Ed. of Publishing House: S.M. Davydova; Tech. Ed.:
M.A. Kondrat'yeva.

PURPOSE: This book is intended for astronomers, geodesists, and other scientific personnel interested in the precise determination of time.

COVERAGE: This is the first of a series of periodicals to be published by the Card 1/4

· Measurement of Time (Cont.)

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All-Union Scientific Research Institute of Physical-Technical and Radio-Technical Measurements. The present volume is concerned with the measurement of time and represents some of the work of the Central Scientific Research Bureau of the Unified Time Service during the years 1947-1951. References accompany each article.

#### TABLE OF CONTENTS:

Lubentsov, V.F. The State Time Service

The article covers the development of the State Time Service for the past ten years. The development is described in relation to the corresponding requirements of science and industry.

Pavlov, N.N. The Views of V. Ya. Struve on the Problem of Evaluating the Precision of Interpolation and Extrapolation of Clock Corrections

This article is devoted to the study of clock rates. Comparisons are made of the views and methods of Gauss, Struve, and Preypich.

Dolgov, P.N. The Differential Method of Deriving Mean Corrected Moments of Rhythmic Time Signals and Evaluating Their Accuracy.

This article describes the technique of computing standard time by differential method. This method was developed for practical use in the Time Service by N. Kh. Preypich.

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This article discusses the stability of targets used by the Pulkova Observatory for azimuth determination over a long period of time.	54
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Measurements of Time (Cont.)

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SOV/2205

A complete description of the design and principles of operation of photo chronoscope is given. The description is well illustrated with diagrams and photographs.

Konstantinov, A.I. and A.I. Solov'yev. Basic Determination of the Longitude of the Astronomic Station in Irkutsk During 1947-1948

This article describes the program used in the precise determination of the difference in longitude Moscow-Irkutsk. This work served to give the Irkutsk Time Service a precise longitude value and to establish a base for determining personal equations of astronomers.

72

Dolgov, P.N. The Work of the Time Service of the Soviet Union During 1948, 1949, and 1950

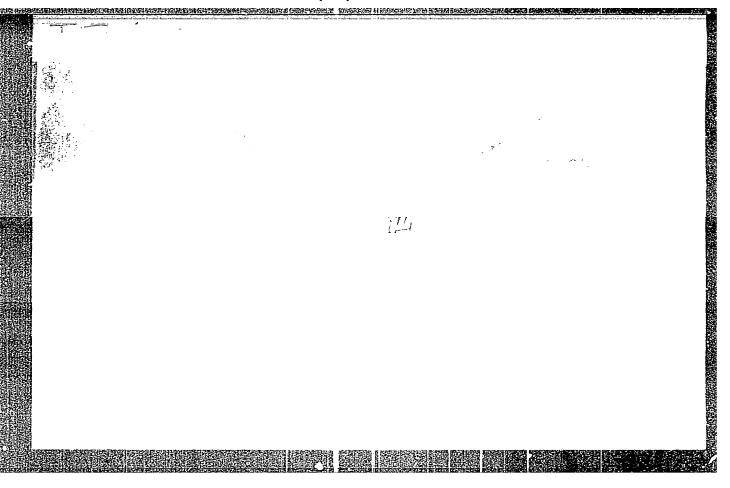
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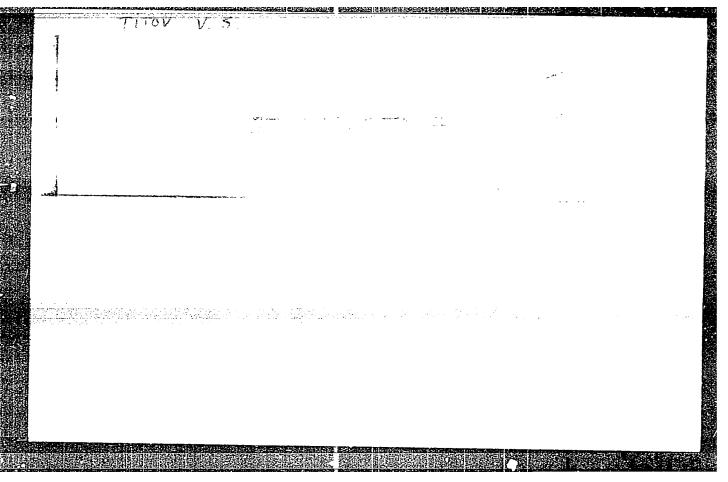
This article evaluates the results of the time services of the USSR for the years cited based on the analysis of the monthly bulletins of moments of time signals and moments of standard time.

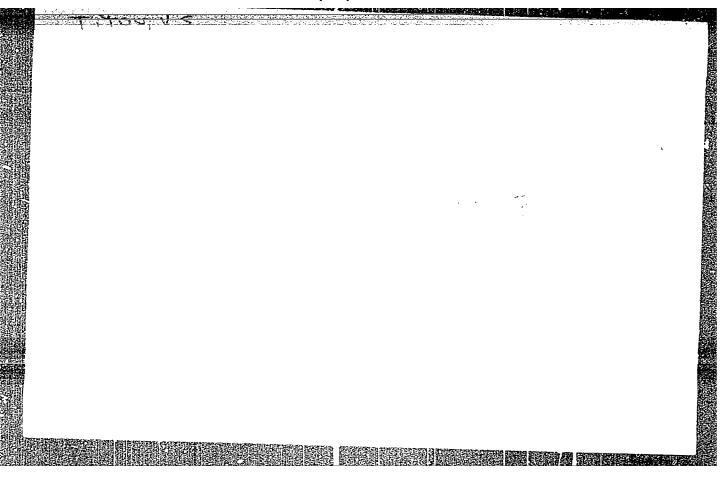
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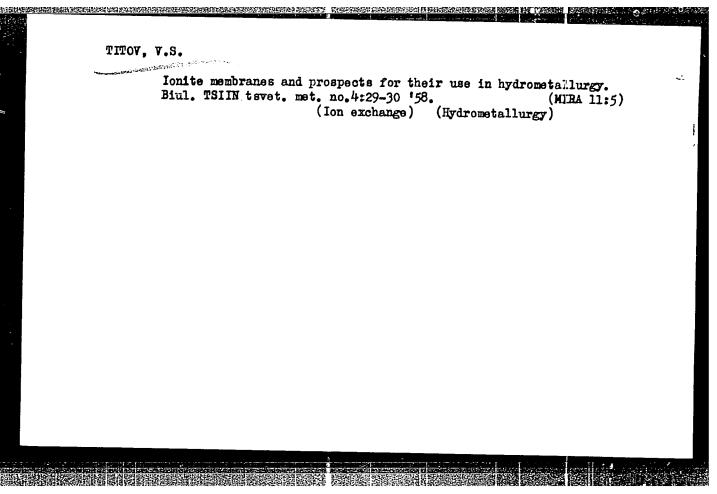
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AUTHORS:

Pashkov, A. B., Titov, V. S.

SOV/64-58-5-3/21

TITLE:

The Basic Properties of Some Soviet Ionites (Osnovnyye kharakeristiki nekotorykh sovetskikh ionitov)

PERIODICAL:

Khimicheskaya promyshlennost', 1958, Nr 5, pp. 270 - 276 (USSR)

ABSTRACT:

In the present paper the authors describe in the form of a summary some industrial and experimental types of Soviet ionites, viz. those prepared at the Scientific Research Institute for Plastics as well as at the Moscow Chemical and Technological Institute imeni D.I. Mendeleyev (Moskovskiy khimiko-tekhnologicheskiy institut im. D.I.Mendeleyeva)(I.P.Losev, Ye. B. Trostyanskaya, A. S.Tevlina, A.B.Davankov, V.M.Laufer), at the All-Union Institute for Heat Engineering (Vsesoyuznyy teplotekhnicheskiy institut) (F.G. Prokhorov, K.A. Yankovskiy et al.), at the State Institute for Applied Chemistry (Gosudarstvennyy institut prikladnov knimii) (T.L. Khmel'nitskaya, S.A. Marandzhev), and at the Institute for High Molecular Compounds of the AS, USSR (Institut vysokomolekulyarnykh soyedineniy AN SSSR)(A.A. Vansheydt, A.A. Vasil'yev et al.). The following types of highly acid

Card 1/5

cationites are mentioned and described. Sulfocarbon represents

The Basic Properties of Some Soviet Ionites

SOV/64-58-5-3/21

a polyfunctional cationite with the active groups  ${\sim} 50{_{\chi}}{\rm H}$ and apparently also contains COOH- and OH groups; the quality of the ionic exchange depends to a high degree on the particular nature of the carbon source, as the sulfocarbon is obtained by the sulfonation of ground mineral coal. The bifunctional cationite RE-1 (earlier termed espatite-1) is also highly acidous, has  $-SO_2H$  and -OH groups, and is obtained by a poly. condensation of the paraphenolsulfo acid with formaldehyde in acid medium. It is produced according to TK MKhP 2115-49. Ku-2 represents a monofunctional cationite of the highly acidic type with the active group -SOzH and is obtained by treating a styrene compolymer previously swollen, with divinyl benzene, with chlorosulfonic acid and then saponifying the sulfo chloride product. According to TK MKhPM-661-55 it is produced in two types which differ by the degree of swelling. The ionic exchangers SBS and SBSR are monofunctional and are of the highly acid type with the active HOzS group. The former is produced in three modifications which differ in sulfur content; it is used in the production of antibiotics. The following weakly acidic cationites are mentioned: KB -4 and KB -4 P-2 represent monofunctional carboxyl cationites with the active COCH-group;

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The Basic Properties of Some Soviet Ionites

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they are obtained by the granular copolymerization of methyl methacrylate with divinyl benzene in 1-4% acolution of polyvinyl alcohol and a subsequent alcoholic suponification of the ester groups under pressure. They are produced according to VTU MKhP M-576-56. The bifunctional cationit KFu is -COOH and -OH groups as active groups and is, among others used in the production of antibiotics SG -! is a monofunctional cationite with -COOH groups and belongs to the highly porous ionic exchangers. It is produced according to TU BU-129-55. The following types of anionites are mentioned and discussed: AH-1 (previously termed espatite-TM) as polyfunctional, weakly basic anionite with the secondary and tertiary nitrogen groups =NH and =N; it is obtained by a polycondensation of melamine with formaldehyde in acid medium. It is produced according to TU MKhP 2116-49 also represent a polyfunctional weakly basic anionite with tertiary and secondary nitrogen groups  $\stackrel{\text{def}}{=}$  N and =NH; it is obtained by polycondensation of methylol derivatives of phenol with polyethylene polyamines and formaldehyde. It is produced in the chloride form according to VTU MKhP 4289-54 and recently as AH- 2FG'in the form of onherical granulates. The polyfunctional weal.ry basic anionity EDE -10 P also has highly

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The Basic Properties of Some Soviet Ionites

SOV/64-58-5-3/21

basic properties and has socondary, tertiary and quarternary amino groups. It is produced by the polycondensation from polyethylene polyamines with epichlorohydrine and is obtained according to VTU MKhP YeU-58-54 in the chloride form. AB-16 is polyfunctional, highly basic and contains secondary, tertiary and quarternary amino groups =NH, IN and # N ( ) . It is produced according to VTU M-746-57. The anionites H-0 and MMT -1 are polyfunctional, strongly basic to a certain degree, contain =NH and =N groups, and are obtained by the polycondensation of urea, guanidine and formaldehyde. The VODGYeO Institute also synthesized a number of other anionites with selective properties. Finally, the authors describe ionite membranes which have recently been produced in the two above mentioned instill of which tutes. There are 7 tables and 44 references, are Soviet.

ASSOCIATION:

Nauchno-issledovatel skiy institut plasticheskikh mass

(Scientific Research Institute for Plastics)

Card 4/5

The Basic Properties of Some Soviet Ionites

SOV/64-58-5-3/21

1. Ions--Sources

2. Ions--Properties

3. Ion exchange

4. Exchange reactions

Card 5/5

807-25-58-7-13/56 AUTHOR: Titov, V.S., Scientific Research Institute of Plastics

TITLE: Ionites (Ionity)

ERICA POLICE DE LA LOS DE LA LIGITA DE LA PORTA DE

Nauka i zhizn', 1958, Nr 7, pp 25-29 (USUR) PERIODICAL:

ABSTRACT: Lately, highly molecular substances - ionites (ion exchange resins) - have been applied in industry, medicine and scien-

tific research. Ionite diaphragms are used to transform seawater into fresh water. In 1955, .Docent A.B. Davakov of the Moskovskiy khimiko tekhnologicheskiy institut imeni D.I. Mendeleyeva (the Moscow Chemical Technological Institute imeni D.I. Mendeleyev) demonstrated pieces of gold procured from water by means of a filter with a nozzle containing ion exchange resins. In medicine, Professor A.A. Bagdasarow discovered that blood, if passed through special ion exchange resins, is freed from calcium salt and can be preserved for

a long period of time. The USSR has produced a large assortment of ion exchange resins, such as: the polysterine sulfocationites EU-2 and SDV-3: the amino-anionites EV-15, AV-17,

AV-18; the cationites KB-4, KMD, KMG; the chenol-formal-Card 1/2

dehyde cationites KU-1 (Espatit-1) and LOF and the anionites

Ionites

207-25-58-7-13/56

N-O, MMC and AN-1. Credit belongs to Professor I.P. Losey from the Moscow Chemical Technological Institute for having developed the Soviet ion exchange materials. In the near future Soviet medicine will cure diseases such as stomach ulcer, gastritis, myotonia (muscular spasms) atc. b. applying ionites. There are 2 flow charts.

ASSOCIATION: Nauchno-issledovatel'skiy institut plastmass (Scientific Research Institute of Plastics)

1. Ion exchange resins--Applications

Card 2/2

15(8)

207,47-59-2-3/31

AUTHOR:

Titov, V.S.

TITLE:

Physical Methods of Reprocessing Plastics Materials (Fizi-

cheskiye metody pererabotki plastmass)

PERIODICAL:

Fizika v shkole, 1959, Nr 2, pp 9-15 (USSR)

ABSTRACT:

The Plenary Session of the TsK KPSS of May 1958 set the task to accelerate the development of the plastics industry. The 8-fold increase in production of plastics materials and synthetic resin by the end of 1965 will require the erection of new installations, the development and introduction of new polymers, highly-productive equipment and modernization of manufacturing methods. Since the various methods of working-up plastics materials into finished products are based on the properties of the material, the author lists these properties thus facilitating the understanding of the physical and chemical processes which take place when the material is reprocessed. The author then sets forth the most important of the many methods of working up plastics materials into finished products, beginning with the stamping method applied for making articles of laminated and thermoplastic sheets.

Card 1/2

Physical Methods of Reprocessing Plastics Materials SOV/47-59-2-3/31

Two drawings show the press-mould for flexible sheets of plastics, and a vacuum form. The next methods explained are those of blowing by steam or air, immersion, casting, compression moulding, injection moulding and other extrusion methods. The author lists a number of sheet and film plastics which have found wide application, and briefly outlines the method of obtaining films and spinning fibres. In conclusion he states in which fields of national economy plastics find wide application. There are 7 diagrams and 2 photos.

ASSOCIATION: Institut plastmass, Moskva (Institute of Plastics, Moscow)

Card 2/2

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5(1)

sov/63-4-1-26/31

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AUTHOR:

Titov, V.J.

TITLE:

On Some Properties of Ionite Membranes Depending on the Frincipal Qualitative Characteristics of Ion-Exchange Resins (O nekotoryth svoystvakh ionitovykh membran v zavisimosti ot osnovnykh kachestvennykh kharakteristik ionoobmennykh smol)

PERIODICAL:

Khimicheskaya nauka i promyshlennost', 1959, Vol 4, Nr 1, pp 137-138 (USSR)

ABSTRACT:

The dependence of ionite membranes on the nature and the principal qualitative characteristics of cation-exchange resins was studied on membranes with a ratio of 65: 35 between the ionite and the binding material using the ionites KU-1, KU-2, KB-4 and experimental types. It has been shown that the electric conductivity and selectivity of the membranes may be controlled by changing the swelling of the ionites. It is recommended to choose sulfo- or sulfocarboxyl cationites with a maximum capacity and swelling of 2.7 - 3.7 ml/g. The best electrochemical and mechanical properties have membranes on the base of the catio-

Card 1/2

nites KU-4 and KUT-1.

sov/63-4-1-28/31

EXECUTE EDITORS DE LES MANTES ED ENTRE LA TRANSPORTE DE L

On Some Properties of Ionite Membranes Depending on the Principal Qualitative Characteristics of Ion-Exchange Resins

There are 3 graphs, 1 table and 6 references, 5 of which are Soviet and 1 English.

ASSOCIATION: Nauchno-issledovatel'skiy institut plastmass (Scientific Re-

search Institute of Plastics)

SUBMITTED: June 18, 1958

Card 2/2

TITOV, Vladimir Semenovich; BERENSON, Yu.E., red.; MARAKASOVA, L.P., tekhn.red.

[Ion exchangers] Ionity. Moskva, Izd-vo "Sovetskaia Rossiia," (MIRA 13:5)

(Ion exchange)

. TITOY, V. S.

PHASE I BOOK EXPLOITATION

SOV/4183

- Saldadze, Kirill Maksimovich, Arkadiy Borisovich Pashkov, and Vladimir Semenovich Titov
- Ionoobmennyye vysokomolekulyarnyye soyedineniya (Ion Exchange Macromolecular Compounds) Moscow, Goskhimizdat, 1960. 355 p. Errata slip inserted. 6,500 copies printed.
- Ed. (Title page): Kirill Maksimovich Saldadze; Ed. (Inside book): P.P. Korzhev; Tech. Eds.: M.S. Lur'ye and A.A. Speranskaya.
- PURPOSE: This book is intended for scientific workers, engineers, and technicians concerned with the manufacture and use of ionites. It can be used by students and aspirants in chemical technology schools of higher education.
- COVERAGE: The book discusses the theory of ion exchange processes, the basic principles of ionite synthesis, and their physicochemical properties, applications, and methods of testing ionites. In compiling this book the authors have attempted to present in systematized and compact form the results of theoretical and practical investigations published in the periodical literature in the field of ion exchange resins. Considerable attention is given to the properties of ion exchange resins, especially to Soviet brands. Problems in the purification Card 1/7

Ion Exchange Macromolecular Compounds

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of water and salting-out processes, and in the recovery, purification, and concentration of valuable materials are also discussed. Chapters I, III, and V were written by Candidate of Technical Sciences K.M. Saldadze; Chapters II and IV by Engineers A.B. Pashkov and V.S. Titov; they also compiled the bibliography. The following personalities are mentioned: K.V. Chmutov, Corresponding Member, Academy of Sciences USSR, Professor F.M. Shemyakin, Professor N.N. Tunitskiy, M.I. Garbar, and M.S. Akutin. There is a bibliography of 133 pages consisting of Soviet and Western sources.

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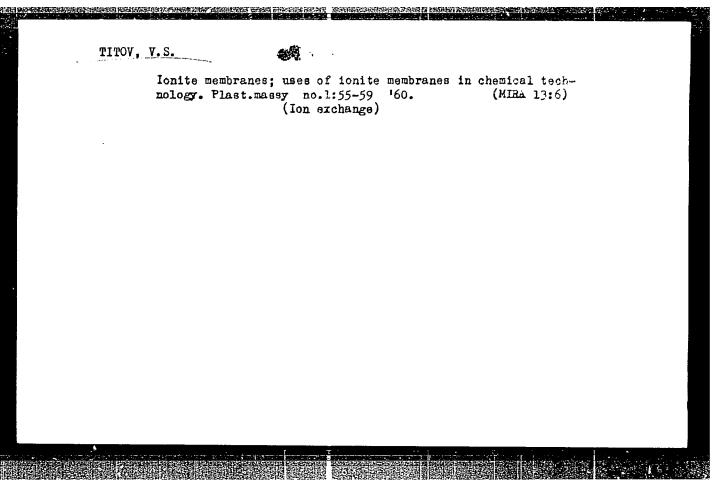
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	10/4/60



TITOV, V. S.

Cand Tech Sci - (diss) "Synthesis and study of the basic properties of ion-exchange membranes and several by-products for the membranes." Moscow, 1961. 25 pp with diagrams; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Order of Lenin Chemical Technology Inst imeni D. I. Mendeleyev); 200 copies; price not given; list of author's works on pp 23-24 (14 entries); (KL, 5-61 sup, 194)

S/064/62/000/012/006/006 B119/B180

AUTHORS:

Titov, V. S., Pashkov, A. B. Manthach Amilian

TITLE:

News in synthesis, production, and application of polymeric

ion exchangers

PERIODICAL: Khimicheskaya promyshlennost, no. 12, 1962, 54 - 60

TEXT: The article reviews Western and Soviet research work carried out hetween 1955 and 1962 on polymeric ion exchangers. All-purpose exchangers, selective exchangers, electron exchange (redox) resins, ion exchange membranes, the theory of ion exchange, methods of investigating the properties, and developments in the technology of ion exchange are discussed. There are 114 references.

Card 1/1

TITOV, V.S.; PASHKOV, A.B.

Recent developments in the synthesis, mamifacture and uses of ion exchange polymeric materials. Khim.prom. no.12:912-918 D '62. (MIRA 16:2)

1. Nauchno-issledovatel'skiy institut plastmass.
(Ion exchange resins)
(Chemistry, Organic-Synthesis)

TITOV, V. V.

"The Effect of the Shape and Chemical Composition of Certain Foreign Bodies on the Healing of Experimental Soft Tissue Wounds in Horses." Moscow Veterinary Academy of the Min. Higher Education USSR, Moscow, 1955. (Dissertation for the Degree of Candidate in Veterinary Sciences)

SO: Knizhnaya Letopis<sup>1</sup>, No. 22, 1955, pp 93-105

AUTHORS:

Yur'yev, Yu. K., Sadovaya, N. K., Titov, V. V.

SOV/79-28-11-30/55

TITLE:

The Chemistry of Selenophene (Khimiya selenofena)

XIII. Cyano-Ethylation of the Ketones of the Selenophene Series (XIII. Tsianetilirovaniye ketonov ryada selenofena)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol 28, Mr 11,

pp 3036 - 3041 (USSR)

ering between the experience of the experience of the companies of the experience of the companies of the co

ABSTRACT:

In an earlier paper (Ref 1) the authors succeeded to amino-methylate the ketones of the selenophene series according to Mannich (Mannikh), which led to some β-dimethyl-aminoalkyl-(selenienyl-2)-ketones. In the present paper they continue the investigation of the reactivity of these ketones and attempted to carry out their cyano-ethylation. The cyano-ethylation of the 2-acyl selenophenes that do not have alkyl radicals in the position 3 takes place quantitatively on the action of acrylonitrile in the presence of an alkyl alcoholate. In this way the following  $\delta$ -ketone nitriles of the selenophene series were obtained:

Card 1/3

1',1',1'-tri(cyano-ethyl)-2-aceto-selenophene,

The Chemistry of Selenophene. XIII. Cyano-Ethylation of the Ketones of the Selenophene Series

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SOV/79-28-11-30/55

1',1'-di(cyano-ethyl)-2-propioselenophene, and 1'-methyl-1'-cyano-ethyl-2-propioselenophene. The cyano-ethylation of the 3-methyl-2-acyl selenophene does not take place, apparently because of the difficulties in the spatial arrangement. Only in the case of the 3-methyl-2-acetoselenophene a reaction took place, however, with a smaller yield of 3-methyl-1',1',1'-tri(cyano-ethyl)-2-acetoselenophene. In the alkaline hydrolysis of the 8-ketonitriles of the selenophene series  $\delta$ -ketonic acids unknown before in this series were obtained:1',1',1'-tri-(carboxy-ethyl)-2-acetoselenophene, 1',1'-di(carboxyethyl)-2-propioselenophene, 1-methyl-1'-carboxyethyl-2-propioselenophene and 3-methyl-1',1',1'-tri-(carboxy-ethyl)-2-acetoselenophene (Scheme 1). The reduction of the 1'-methyl-1'-cyano-ethyl-2propioselenophene with formic acid according to the method by A.N. Kost and his collaborators (Ref 8) the 3,3-dimethyl-2-(selenienyl)-piperidon-6 was synthesized (Scheme 2). In the synthesis of the

Card 2/3

The Chemistry of Selenophene. XIII. Cyano-Ethylation SOV/79-28-11-30/55 of the Ketones of the Selenophene Series

> 2-isobutyroselenophene, 3-methyl-2-isobutyroselenophene, and similar selenophenes it became evident that the silicic anhydrides of the saturated missivalent organic acids are convenient acylation agents of the selenophene nucleus, which is also the case in the synthesis of the ketones with ramified radicals. There are 12 references, 8 of which are Soviet.

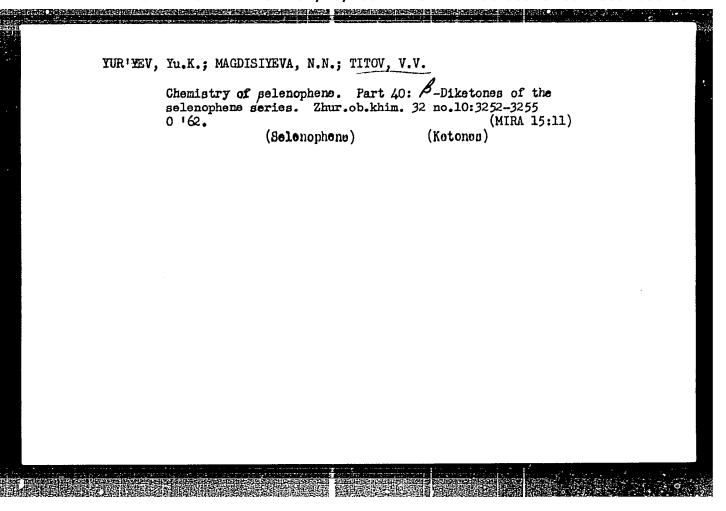
ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State Univer-

sity)

SUBMITTED:

September 20, 1957

Card 3/3



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YUR'YEV, Yu.K.; MACDFSIYEVA, N.N.; TITOV, V.V.

1,3-Dibenzoyl-l-3,-di-(2-selenenoyl)-propane. Met. poluch.
khim. reak. i prepar. no.6:9-11 '62. (MIRA 17:5)

1. Moskovskiy gosudarstvennyy universitet.
```

YUR'YEV, Yu.K.; MAGDESIYEVA, N.N.; TITOV, V.V.

Chemistry of selenophene. Part 44: Bis—diketones of the selenophene series. Zhur.ob.khim. 33 no.4:1156-1160 Ap \*163. (MIRA 16:5)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova. (Selenophene) (Ketones)

PEN AN; MAGDESIYEVA, N.N.; TITOV, V.V. YUR!YEV, Yu.K.; PESHKOVA, V.M.

Study of the dissociation of some selenophene-containing \$\mathcal{B}\$ -diketones using the potentiometric method. Vest. Mosk. un. Ser. 2: Khim. 18 no.3:70-74 My\_Je \*63. (MIRA 16:6)

1. Kafedra analiticheskoy khimii Moskovskogo universiteta. (Ketone) (Potentiometric analysis)

YUR'YEV, Yu.K.; MAGDESIYEVA, N.N.; TITOV, V.V.

Chemistry of selemoritone Part /6: Paretter of

Chemistry of selenophene. Part 46: Reaction of () -penzoyl-2-acetoselenophene with hydroxylamine. Zhur.ob.khim. 33 no.7:2158-2163 Jl '63. (MIRA 16:8)

1. Moskovskiy gosudarstvennyy universitet in M.V.Lomonosova. (Selenophene) (Hydroxylamine)

YEFIMOV, I.P.; LAGUNOVA, O.D.; MAGDESIYEVA, N.N.; TITOV, V.V.; YUR'YEV, Yu.K.; PESHKOVA, V.M.

Determination of the acid dissociation constants of A-diketones of the selenophene series. Vest. Mosk. un. Ser. 2: Khim. 18 no.5:49-53 S-0 '63. (MIRA 16:11)

1. Kafedra analiticheskoy khimii Moskovskogo universiteta.

YUR'YEV, Yu.K.; MAGDFSIYEVA, N.N.; TITOV, V.V.

Synthesis of \( \omega \) - (p-nitrobenzoyl) - 2-acetoselenophene. Zhur.
ob. \( \omega \) him. 33 no.8:2577-2578 Ag '63. (MIRA 16:11)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

YUR'YEV, Yu.K.; MAGDESIYEVA, N.N.; TITOV, V.V.

Chemistry of selenophene. Part 54: Reactions of  $\omega$ -acetyl-2-acetoselenephene and the synthesis of  $\omega$ -hydroxytenzoyl)-2-acetoselenophene. Zhur. org. khim. 1 no.1:163-167 Ja 165. (MIRA 18:5)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomenosova.

MAGDESIYEVA, H.N.; TITOV, V.V.; BYSTROV, V.F.; LEZINA, V.P.; YUR'YEV, Yu.K.

(MIRA 18:8)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova i Institut khimicheskoy fiziki AN SSSR.

L 07161-67 EWP(j)/EWT(m)ACC NR: AP6028199 UR/0189/66/000/002/0090/0094 SOURCE CODE: 29 AUTHOR: Yefimov, I. P.; Titov, V. V.; Magdesiyeva, N. N.; Monakhova, A. T. Analytical Chemistry Department (Kafedra analiticheskoy khimii) TITLE: Acid-base properties of certain \$-diketones of the selenophene series SOURCE: Moscow. Universitet. Vestnik. Seriya II. Khimiya, no. 2, 1966, 90-94 TOPIC TAGS: dissociation constant, ketone, organoselenium compound ABSTRACT: The dissociation constant  $K_{diss}$  of certain  $\beta$ -diketones of the selenophene series containing 2- and 3-selenienyl radicals were determined by potentiometric titration with NaOH in a water-dioxane medium with the use of the equation  $K_{\text{diss}} = \frac{[\text{H+}] \left\{ [\text{NaOH}] - [\text{H+}] - \frac{K_{\text{H,O}}}{[\text{H+}]} \right\}}{[\text{HA}] - \left\{ [\text{NaOH}] + [\text{H+}] - \frac{K_{\text{H,O}}}{[\text{H+}]} \right\}}.$ where [HA] is the total concentration of  $\beta$ -diketone. It was found that  $K_{\mbox{diss}}$ , which represents the acid strength of the enol form, depends on the nature of the radicals. For pyridyl-containing β-diketones with a selenienyl radical, the decrease in basic properties occurs in the order Card, 1/2 UDC: 543.8

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$$(a) = \bigcup_{N} > (\beta) = \bigcup_{N} > -(\gamma) = N.$$

The introduction of the electron-acceptor NO<sub>2</sub> group into the aromatic radical decreases the acidity of the  $\beta$ -diketone. For  $\beta$ -diketones with a 3-selenienyl radical, the change in basic properties occurs in the order

$$>$$
  $>$   $>$   $>$   $-$  CH<sub>3</sub>.

The extraction of necdymium with pyridyl-containing diketones of the selenophene series was studied in the CHCl3-H2O system using an Nd147 radioisotope. The degree of extraction was 90% in all cases. Orig. art. has: 2 figures and 2 tables.

SUB CODE: 07/ SUBM DATE: 27Feb65/ ORIG REF: 005

Card 2/2 m LE

TITOV, V., Cand Agr Sci — (diss) "Pathologico-anatomical differential diagnosis of the chronic form of pasteurellosis, listerellosis and staphylococcia in rahbits." Kazan', 1958. 15 pp (Kazan' State Vet Inst im N. E. Bauman) (KL, 18-58, 101)

-87-

KRUGLOV, V.T., kand. veter. nauk; TITOV, V.V., kand. veter. nauk; ZELEPUKIN, V.S., red.; OKOLELOVA, Z.P., tekhn.red.

[Protection of farm animals against radioactive, chemical, and bacteriological contamination] Zashchita sel'skokho-ziaistvennykh zhivotnykh pri radioaktivnom, khimicheskom i bakteriologicheskom zarazhenii. Moskva, Sel'khozizdat, 1963. 38 p. (MIRA 17:3)

- 1. TITOV, V. V.
- 2. USSR (600)
- 4. Drawing Instruction
- 7. Experience in instructing drawing. Mat. v. shkole no. 6: 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

105-6-10/26

AUTHOR

TITOV, V.V. Candidate of Technical Sciences and KOGAN, Z. B. Engineer.

TITLE

Turbogenerator Rotor with Direct Cooling of Windings.

(Rotor turbogeneratora s neposredstvennym oklazhdeniyem provodnikov

obmotki - Russian)

APPROVED FOR RELEASE: 07/16/2001

Elektrichestvo, 1957,

Nr 6, pp 35 - 38, (U.S.S.R.)

ABSTRACT

PERIODICAL

In the course of preparations made for the production of large 300 kW generators, a test rotor with direct cooling of windings by means of hydrogen was produced by the "Elektrosila" plant. In 1956 it was mounted upon a 30 MV turbogenerator and tested while inoperation. The construction of rotor windings, mounting, and operation are described in detail and the following summary of results is given- 1) The method of direct cooling which is used here can be employed also in the case of 200 and 300 kW turbogenerators. 2) Calculations show that the utilization of material in a turbogenerator with a rotor of new construction and a stator of crdinary construction is, on the average, 60% higher than in the case of highly centered machines of the normal series. In this case the operation temperature of the rotor winding does not exceed 80% of the temperature permitted for insulation of the rotor in the case of ordinary cooling systems. 3) Th new construction can also be used for turbogenerators with 30....150 MW, which means a 30-35% reduction of weight and dimensions. 4) The production of rotor windings of the new construction is, however, more complicated. 5) The stators of turbogenerators with hydrogen cooling must be pressed off with compressed air. (8 illustrations).

Card 1/2

CIA-RDP86-00513R001755910007-6"

Turbogenerator Rotor with Direct Cooling of Windings.

105-6-10/26

ASSOCIATION

"Elektrosila" Plant and "Lenenergo"

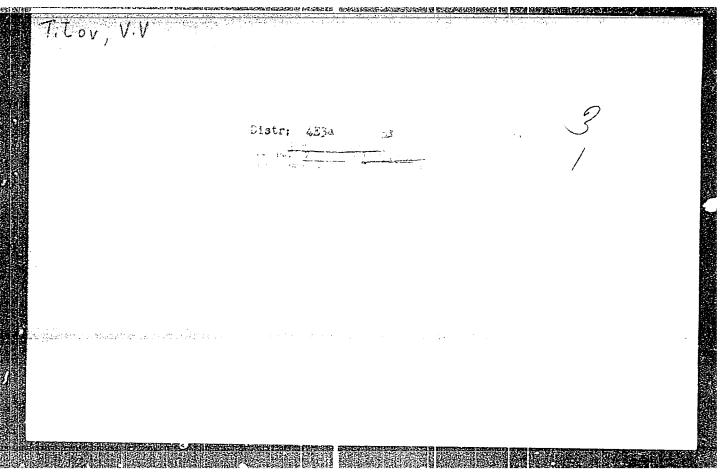
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SUBMITTED 18.1.1957

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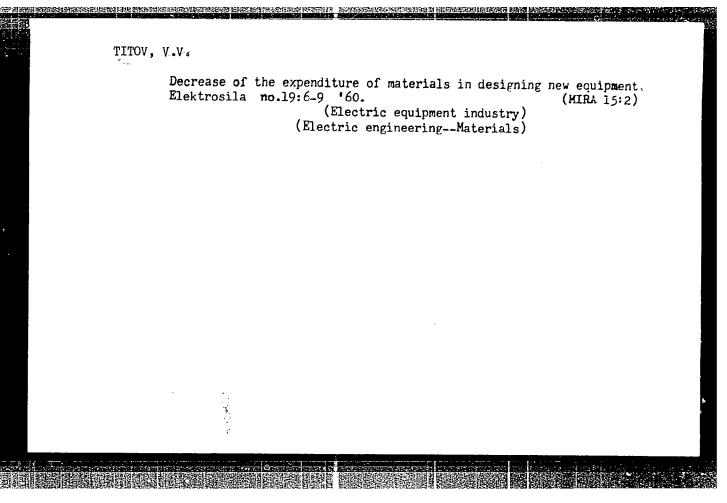
Library of Congress.

Card 2/2



Construction of physical instruments as a method for lasting retention of knowledge by students. Politekh.obuch. no.9:36-38 S '59. (MTRA 12:12)

1. Kirovskiy oblastnoy institut usovershenstvovaniya uchiteley. (Physical instruments) (Kirov--Physics--Study and teaching)



GORSKIY, Yu.M.; TITOV, V.V.

Semiconductor devices for measuring the speed of a crankshaft and the angle of advance or the angle of fuel injection in internal combustion engines. Avt.prom. 27 no.12:25-27 D '61.

(MIRA 1):1)

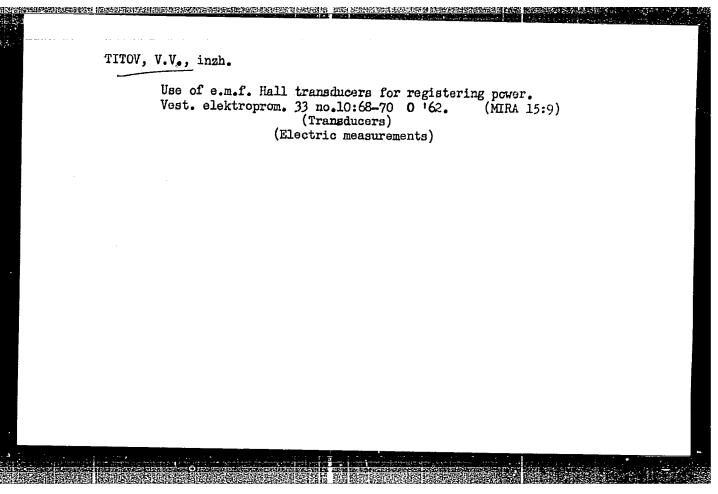
1. Moskovskiy energeticheskiy institut.
(Electronic instruments) (Diesel engines--Testing)

nits. Elektrichstvo no.6:1-4 Ag '61.
" im. Kirov. enerators)
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1

Use of the students' practical experience in teaching physics.

Fiz.v shkole 22 no.1:86-87 Ja-F '162. (MTRA 15:3)

(Automation)



DANILEVICH, Yanush Bronislavovich; KASHARSKIY, Engmar Grigor'yevich;

TITOV, V.V., kand. tekhn. nauk, retsenzent; DARTAU, A.A.,
kand. tekhn.nauk, red.; ZHITNIKCVA, O.S., tekhn. red.

[Additional losses in electrical machines] Dobavochnye
poteri v elektricheskikh mashinakh. Moskva, Gosenergoizdat, 1963. 213 p.

(Electric machinery)

(Electric machinery)

ETTINGER, Ye.L., kand.tekhn.nauk; GLUKH, Ye.M., kand.tekhn.nauk; GCL'DIN, R.C., inzh.; TITOV, V.V., kand.tekhn.nauk; NEYMAN, Z.B., inzh.

Concerning L.V.Roman's article. Vest. elektroprom. 34 no.1: 62-64 Ja '63. (MIRA 16:1)

(Electric generators) (Rosman, L.V.)

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	JTHOR: Gusev, V. M; litov, V. V.; Guseva, M. I.; harinnyy, V. i
A	THE: Thermal emf in a quantizing field in semiconductors with multiellipsoid
	and in a quantizing field in semiconductors with sufficient
T	ITLE: Thermal ear in a 4-2-
e	nergy surfaces
. 1	OURCE: Fizika tverdogo tela, v. 7, no. 7, 1965, 2077-2081
ء ا	OURCE: Fizika tyerdogo tela, v. 1, no. 1, no.
	tani conductor, conduction band
,	OPIC TAGE: transverse thermal emf, thermal emf, semiconductor, conduction band
	thermal finit is w
	BSTRACT: Obraztsov's formula relating entropy to transverse the most magnetic field semi-conductor with a simple conduction band placed in a quantizing magnetic field semi-conductor with a simple conduction band placed in a quantizing magnetic field semi-conductor with a simple conduction band placed in a quantizing semi-conductors.
1	BSTRACT: Obrazisov z in the conduction band placed in a quantizing indicators semiconductors semiconductors (Yu. N. Obrazisov, FTI, 7, 4, 573, 1965) in extended to encompass semiconductors (Yu. N. Obrazisov, FTI, 7, 4, 573, 1965) in extended to encompass semiconductors (Yu. N. Obrazisov, FTI, 7, 4, 573, 1965) in extended to encompass surfaces. Although the method can be used in investigating
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	with ellipsoidal energy out to a present calculations are restricted to some the hand a degenerate electron gas, the present calculations are as he applied to concrete hand degenerate case, when reviews are included to the training the second of the concrete hand.
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NO REF SOV: 002 OTHER: 006 ATD PRESS: 4044

L 34819-66 EMT(1)/EMT(m)/T/EMP(t)/ET1 TJF(c) JD/AT

ACC NR: AP6018530 SOURCE CODE: UR/9181/66/008/006/1708/1712

AUTHOR: Gusev, V. M.; Zadde, V. V.; Landsman, A. P.; Titov, V. V.

Onu: none

TITLE: Investigation of certain characteristics of photoconverters with p-n junctions produced by ion bombardment

SOURCE: Fizika tverdogo tela, v. 8, no. 6, 1966, 1708-1712

HENRI DECEMBER CANCELLE

TOPIC TAGS: photoconductive cell, pn junction, silicon, ion bombardment, volt ampere characteristic, spectral energy distribution

ABSTRACT: This is a continuation of earlier work by the authors (FTT v. 7, 2077, 1965), there a procedure was developed of producing silicon photoconverters by producing inside the silicon a p-n junction resulting from bombarding silicon with 30-kev phosphorus ions. The present paper describes the results of further studies of the characteristics of such converters. The experiments were carried out with p-type silicon of resistivity 4 ohm-cm and initial minority carrier lifetime  $10-50~\mu sec$ , using the same apparatus as before. The irradiation dose ranged from 1 to  $10^5~\mu coul/cm^2$ , and the current density from 1 to  $10^5~\mu coul/cm^2$ . The bombarding phosphorus ion energy was ~30 kev. It was found that the minimum dose required for the formation of the p-n junction was about  $10^2~\mu coul/cm^2$ . Annealing the crystal (at 500 and 600C) after bombardment makes it possible to produce the junction with smaller dose (but still above the threshold). The depth of the junction ranges from 0.75 to 1.1  $\mu$ ,

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29932-66 ENT(1)/EWT(m)/I/ENP(e)/EWP(±)/EII ACC NR: AP6018580 IJP(c) OLYHIVIA SOURCE CODE: UR/0181/66/008/06/1964/1965 AUTHOR: Vavilov, V. S.; Guseva, M. I.; Konorova, Ye. A.; Krasnopevtsev, V. V.; ORG: Physics Institute im. P. N. Lebedev, AN SSSR, Moscow (Fizicheskiy institut 66  $\mathcal{B}$ TITLE: Semiconductor diamonds obtained by ion bombardment SOURCE: Fizika tverdogo tela, v. 8, no. 6, 1966, 1964-1965 TOPIC TAGS: semiconductor alloy, semiconductor crystal, semiconductor conductivity, ABSTRACT: An investigation was made of the dependence of electric conductivity on the temperature and concentration of the impurities introduced into a layer of diamond doped with lithium and boron by ion bombardment. Diamond doping was carried out in an ion-ray installation with a magnetic separation at a focusing angle of 180°. Lithium and boron ions with an energy of 40 kev were introduced into the natural face of the crystal or into the cleavage plane perpendicularly to the crystallographic directions [111] and [100]. The activation energy for lithium was (0.29 \* 0.01) ev and for boron (0.25 ± 0.01) ev. Lithium-doped diamond has an electron-type conductivity, while in boron-alloyed diamond the holes are the major charge carriers. Annealing of apecimens at 600C for three hours in an argon atmosphere had virtually no effect on the activa-

CONTRACTOR OF THE RESIDENCE PARTY.

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ACC NR: AP6018580

tion energy of electric conductivity; the general resistance of the doped layer increased somewhat only in the case of boron. The acceptor and donor levels appearing in the forbidden band as the result of radiative defects are deep and have only a slight effect on the activation energy. With an increasing concentration of lithium, the activation energy decreases in the range of high temperatures as well as in the range of lower temperatures. These rules apply to the impurity band, in which the concentration of lithium is about  $10^{20}$  cm<sup>-3</sup>. Ion bombardment makes it possible to obtain semiconducting layers of diamond whose electric conductivity can change by 5 to 10 orders, depending on the extent of doping. The energy level corresponding to the lithium admixture is separated by 0.29 ev from the bottom of the conductivity band, while the energy level of boron is 0.25 ev from the top of the valence band. The authors thank V. M. Gusev for collaboration in the work, V. A. Mizonova and N. A. Shuvalova for the preparation of specimens, Yu. Ye. Andreysv for participation in the measurements, and S. A. Shevchenko for supplying a device for determining the sign for the Hall coefficient. Orig. art. has: 2 figures and 1 table.

SUB CODE: 20/ SUBM DATE: 08Jan66/ OTH REF: 004/ ATD PRESS: 50//

Card 2/2 C.C.

TITCV, Vladimir Vasil'yevich; NIKULIN, S.M., red.

[Trigger-type measuring devices] Izmeritel'nye spuskovye ustroistva. Moskva, Izd-vo "Energiia," 1964. 31 p. (Massovaia radiobiblioteka, no.527) (MIRA 17:6)

# TITOV, V.Ya.

What whould a signaling and communications district be like? Avtom., telem. i sviaz' 4 no.10:20-21 0 '60. (MIRA 13:10)

1. Nachal'nik sluzhby signulizatsii i svyazi Moldavskoy dorogi.
(Railroads--Signaling)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755910007-6"

TITOV, V.Ye., inzh.-podpolkovnik; CHUGASOV, A.A., podpolkovnik, red.;

BUKOVSKAYA, N.A., tekhn.red.

[Methods and means for degasification, deactivation, and disinfection] Sposoby i sredstva degazatsii, dezektivatsii i dezinfektsii. Moskva, Voen.izd-vo M-va obor.SSSR. 1960. 37 p.

(MIRA 14:4)

(DECONTAMINATION (FROM GASES, CHEMICALS, ETC.))

IJK'YANENKO, Viktor Grigor'yevich; OSVYATIKSKIY, Valentin Nikolayevich; SOKOVA, Mariya Ivanovna; TITOV, Vladimir Yevgen'yevich; NOVIK, A.M., red.; MATUSEVICH, S.M., tekhn. red.

[Comparative tables for antifriction bearings] Sravnitel'nye tablitsy podshipnikov kachenia. Kiev, Gostekhizdat USSK, 1962. 146 p.

(MIRA 15:7)

(Bearings (Machinery))—Tables, calculations, etc.)

TITOV, Ya., brigadir avtobusnoy brigady 1-go avtobusnogo parka goroda
Moskvy, laureat Stalinskoy premii; LARINA, L., redaktor; MALEK,Z.,
tekhnicheskiy redaktor.

[From Moscow to Rublevo] Ot Moskvy do Rubleva. [Moskva] Izd-vo VTsSPS Profizdat, 1952. 57 p. [Microfilm] (MLRA 7:10) (Motor bus drivers)

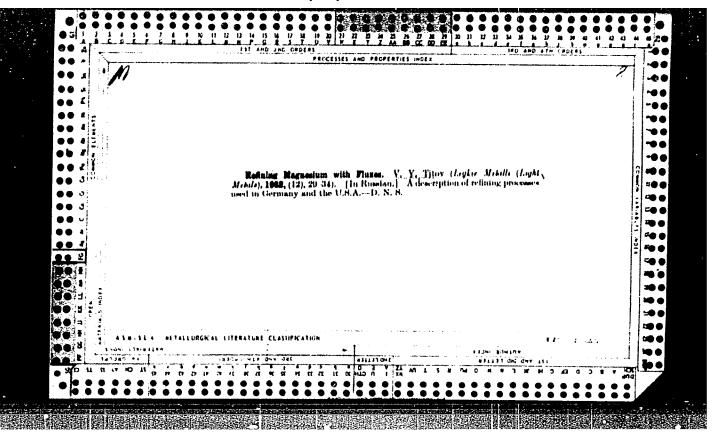
SHEAD SHOWENESS SHEET SH

TITOV, VecAs; BURMISTROV, S.I.; SERAYA, V.I.

Arenesulfonic esters of quinone dioximes. Zhur.ob.khim. 32
no.7:2298-2302 Jl '62.

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.
(Benzoquinome) (Sulfonic acids)

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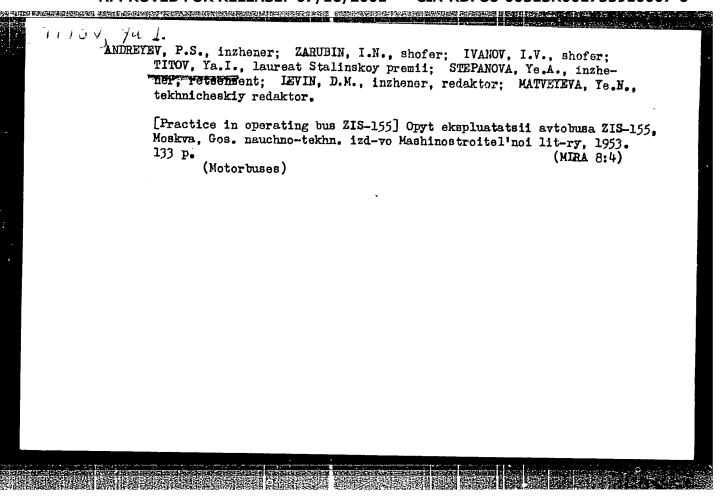
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